

Erratum to: Life cycle assessment of a waste lubricant oil management system

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The original version of this article unfortunately contained a mistake.

Table 1: the legend should be: Input and output quantities of the mild reprocessing methods

Table 2: the legend should be: Input and output quantities of the recovery technologies

The values in Table 2 do not reflect all flows inside of the complex process *Electric energy from WLO recycling and energy recover*. The correct values are shown in the following table:

The online version of the original article can be found at <http://dx.doi.org/10.1007/s11367-012-0455-2>.

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For 1,000 kg of treated WLO Rotary kiln emissions (for ECR, ECER, and CER scenarios)	Input	Output	Amount	References
Re-refined base oil from re-refining (R scenarios)	Sodium hydroxide Propane Hydrogen Steam Heat energy Electric energy	Expanded clay (ECR scenarios)	10.0 kg	EIPPCB (2007), EMEP/ CORINAIR (2007), EMEP/EEA (2009)
		Heat energy (for ECER and CER scenarios)	11.2 MWh	
		Carbon dioxide	3,109.5 kg	
		Sulfur dioxide	1.8E–1 kg	
		Arsenic	2.0E–8 kg	
		Cadmium	1.3E–6 kg	
		Chromium	1.6E–8 kg	
		Nickel	4.3E–6 kg	
		Nitrogen oxides	5.1 kg	
		Carbon monoxide	16.1 kg	
		NM VOC	5.0 kg	
			0.7 kg	
			2.2 kg	
			2.0 kg	
Electric energy from WLO recycling and energy recovery (REP scenarios)	Electric energy		1.7E–1 MWh	ifeu (2005)
			6.7E–1 MWh	
			7.8E–2 MWh	
		Base oil	725.2 kg	
		Flux oil	82.2 kg	
		Light ends	14.2 kg	
		Asphaltic residue	5.18 kg	
		Sewage	79 kg	
			3.6E–2 MWh	
		Electric energy	3.2 MWh	
		Oiled water	46.7 kg	
		Heavy residues	24.8 kg	
		Carbon dioxide	2,078.5 kg	
		Carbon monoxide	5.3 kg	
		Hydrogen fluoride	4.4E–5 kg	
		Hydrogen sulfide	3.4E–8 kg	
		Cadmium	9.7E–9 kg	
		Chromium	4.8E–9 kg	
		Nickel	3.9E–7 kg	
		Nitrogen oxides	23.6 kg	
		Sulfur dioxide	3.9 kg	
		Particles	1.29 kg	